

Rubinshtein, A. M., Slovetskaya, K. I., and
Brueva, T. R.
CHEMISORPTION OF ISOPENTANE ON ALUMINA-
CHROMIA-POTASSIA CATALYSTS. [1961] 5p.
Order from ATS \$7.50
ATS-88N48R

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1960,
v. 134, no. 4, p. 836-839.

DESCRIPTORS: *Pentanes, *Catalysts, Cyclopentanes,
Adsorption, Surface properties, Aluminum compounds,
Chromium compounds, Potassium compounds, Oxides.

ATS: RJ-3181

(Chemistry--Physical, TT, v. 6, no. 8)

61-25195

- I. Title: Chemisorption
- I. Rubinshtein, A. M.
- II. Slovetskaya, K. I.
- III. Brueva, T. R.
- IV. ATS-88N48R
- V. Associated Technical
Services, Inc., East
Orange, N. J.

185217

Office of Technical Services

Rubinshtein, A. M., Slovetskaya, K. I., and
Brueva, T. R.
ISOPENTANE CHEMISORPTION ON ALUMINA-
CHROMIA-POTASSIA CATALYST. [1961] 5p. 17 refs.
Order from OTS or SLA \$1.10 61-18599

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1960,
v. 134 [no. 4] p. 836-839.
Another translation is available from ATS \$7.50 as
ATS-88N48R [1961] 5p.

DESCRIPTORS: *Pentanes, Adsorption, *Catalysts,
Aluminum compounds, Chromium compounds,
Potassium compounds, Oxides.

Measurements were made of the chemisorption of a
paraffinic hydrocarbon on a dehydrogenation catalyst,
the dehydrocyclization of paraffins and its variation
with the changing temperature and pressure. The
(Chemistry--Physical, TT, v. 6, no. 9) (over)

61-18599

- I. Title: Chemisorption
- I. Rubinshtein, A. M.
- II. Slovetskaya, K. I.
- III. Brueva, T. R.

Office of Technical Services

Polymorphism and the Catalytic Properties of
 Al_2O_3 , by A. M. Rubinshtein, et al.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim
Nauk, 1960, pp 31-38.

ATB 8443R

Sci - Chem

Feb 61

135 286

Phase Composition, Structure, and Magnetic Properties of Coprecipitated Ferric Oxide--Alumina Gels,
by A. M. Rubinshtein, V. M. Akinov, A. A. Slinkin,
P pp

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 2, 1960, pp 163-172

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Catalytic Properties of the System $Al_2O_3-Fe_2O_3$,
by A. M. Rubinshtein, N. A. Pribytková, 7 pp

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 2, 1960, pp 173-181

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Physical and Chemical Properties of W_3 Catalysts.
Communication 5. Catalytic Activity of an
Unmixed W_3 Catalyst for the Hydrogenation of Phenol,
by S. M. Samilov, A. M. Rubinshtein, pp 7

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Chromia-Alumina-Potassium Paraffin Dehydro-
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K. I. Slovetskaya, T. R. Brueva, 10 pp.

RUSSIAN, per, Kinetika i Kataliz, Vol I,
No 3, 1960, pp 455-463.

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Vapor-Phase Catalytic Ketonization of Acetic Acid
Over Alkaline Earth Metal Carbonates, by A. M.
Rubinshtein, V. I. Yakerson, 8 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXX, No 9,
1960, pp 2789-2797.

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Catalytic Vapor Phase Ketone Formation from
Acetic Acid Over Magnesium, Zinc, and Cadmium
Oxides, by A. M. Rubinshtein, V. I. Yakerson, 8 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXX, No 10,
1960, pp 3153-3161.

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Physical and Chemical Properties of WS_2 Catalysts.
Communication 4. Phase Composition and Crystal
Structure of WS_2 Catalysts, by S. M. Samoilov, A. M.
Rubinshtein, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 11,
1959, pp 1905-1912.

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Sci -
May 61

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UK-30

A. M. RUBINSHTEIN, et al.

The porous structure and specific surface area of $\text{NiO-Al}_2\text{O}_3$ catalysts and the variation of these properties with changes in composition and thermal treatment

Zhur. Fiz. Khim., 23, No. 2, 310-317(1959)

On loan :UK-30/M. 1405 - English

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The Effect of Composition and Conditions of Heat Treatment on the Structure and Catalytic Activity of Al_2O_3 - ZrO_2 Catalysts, by A. M. Rubinshtein, V. A. Afanasyev, V. M. Akimov, N. A. Pribytkova, R. I. Slovetetskaya, 4 pp.

RUSSIAN, per, Dokl Ak Nauk SSSR, Vol CXXIV, No 5, 1959, pp 1076-1079.

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The Porous Structure and Specific Surface Area
of $\text{NiO-Al}_2\text{O}_3$ Catalysts and the Variation of These
Properties With Changes in Composition and Thermal
Treatment, by A. M. Rubinshteyn, et al.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIII, No 2,
1959, pp 310-317.

DSIR LLU M.1405
(loan)

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Sci - Chem

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Dependence of the Distribution of Platinum in
Impregnated Pt-C Catalyst on the Concentration
of the Original H_2PtCl_6 Solution and the
Character of the Carbon Granulation, by A. M.
Rubinshtein, Kh. M. Minachev, V. M. Akimov,
5 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXIX, No 8,
1959, pp 2503-2507.

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Use of the Method of Ultrathin Section in the Electron Microscopy of Catalysts, by A. M. Rubinstien, M. I. Dashevskiy, N. A. Pribytkova, 11 pp.

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Assoc Tech Serv 55-1378

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- 1 An Investigation of the Interaction Between Some Cisdiaminetetra-acid Compounds of Platinum and Pyridine, 24 pp.
- 2 The Interaction Between Some Transdiaminetetra-acid Compounds of Platinum and Pyridine, by A. M. Rubinshtein, A. K. Il'yasova, 14 pp.

RUSSIAN, per, Zhur Georgy Khim, Vol II, No 8, 1957,
pp 1785-1798; 1799-1807.

AEC-tr-4058

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PST No 85

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Catalytic Inertness of Amorphous Nickel in the Hydrogenation of Benzene and the Dehydrogenation of Cyclohexane, by A. M. Rubinshtein, L. Kh. Freidlin, N. V. Borunova, 2 pp.

Full translation.

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Mar 56 CTS/dex

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Rubinshtein, A. M.
X-RAY STUDY OF MAGNESIUM OXIDE CATALYSTS.
[1961] 7p. 23 refs.
Order from OTS or SLA \$1.10

61-18190

Trans. of Akademiya Nauk SSSR. Otdelenie
Khimicheskikh Nauk. Izvestiya, 1943, p. 427-433.

DESCRIPTORS: Magnesium compounds, *Oxides,
*Catalysts, X-ray diffraction analysis, Crystal
structure.

Correlation of the data pertaining to catalytic con-
version of ethyl alcohol on 41 samples of a catalyst
prepared from magnesium oxide, but differing in their
mode of formation, with the physical structure of these
preparations supports the assumption of the existence
of an optimal dispersion for heterogeneous catalytic
conversions. For the reactions investigated the max-
(Chemistry--Physical, TT, v. 6, no. 6) (over)

61-18190

I. Rubinshtein, A. M.

Office of Technical Services

Rubinshteyn, A. M.
CATALYTIC HYDROGENATION IN THE VAPOR
PHASE AS AFFECTED BY THE DISPERSION OF THE
CATALYST. [1961] 6p. 30 refs.
Order from OTR or SLA \$1.10 61-16863

Trans. of Akademiya Nauk SSSR. Otdelenie
Khimicheskikh Nauk. Izvestiya, 1960, no. 1,
p. 144-150.

DESCRIPTORS: *Benzenes, *Carbon compounds,
*Monoxides, *Hydrogenation, *Alumina-nickel
catalysts, Chemical reactions, Catalysts, Vapors.

The reactions of hydrogenation of benzene and of carbon
monoxide to methane in the presence of nickel-alumina
catalysts of different extents of dispersion were
investigated. It was shown that the activity of the
catalysts depends upon the dispersion of the active
(Chemistry--Organic, TT, v. 6, no. 6) (over)

61-16863

L. Rubinshteyn, A. M.

Office of Technical Services

Rubinshtein, A. M.
DEHYDROGENATION ON NICKEL CATALYSTS OF
DIFFERENT EXTENT OF DISPERSION. [1961] 7p.
17 refs.
Order from OTS or SLA \$1.10 61-16861

Trans. of Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. Izvestiya, 1940, no. 1, p. 135-142.

DESCRIPTORS: *Dehydrogenation, Catalysis, *Nickel catalysts, Cyclohexanes.

The dependence of the activity of nickel-alumina catalysts upon the dispersion of nickel has been investigated for the case of dehydrogenation of aliphatic and naphthenic compounds. The study was carried out with seven preparations of the catalyst, in which the dispersion of nickel varied from 49 to 122 Å. Activity-dispersion isotherms were constructed for dehydrogenation of cyclohexane and formic acid. The dependence of the (Chemistry--Organic, TT, v. 6, no. 6) (over)

61-16861

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Office of Technical Services

Vacuum Dehydration of Boehmite, by Yu. A. El'tekov,
V. M. Akinov, A. M. Rubinshtein, 3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 11,
1949, pp 2044, 2045.

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May 61

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Oxide-Metal Catalysts for the Reforming of Gasolines.
Communication 5. Some Peculiar Features of the
Catalytic and Physical Properties of Palladium Cata-
lysts, by Kh. M. Minachev, M. A. Ryashentseva, A. M.
Rubinshtein, 6 pp.

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1959, pp 819-825.

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Losses in a balanced antenna driven during non-resonance
with an Unmatched Generator, Antenna and Receiver,
by B. Ye. Rubinshteyn, 6 pp.

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Dec 62

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Activities of Nickel, Zinc, and Chromium Oxides,
Sulfides, and Selenides in the Reduction of
Nitrobenzene and the Selective Hydrogenation of a
Diolefin into an Olefin, by A. M. Rabinstejn,
A. A. Dalov, S. G. Kulikov, N. A. Pribytkova, 7 pp.

Full tr

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Relative Activities of Nickel, Zinc, and Chromium
Oxides, Sulfides, and Selenides in the Catalytic
Decomposition of Isopropyl Alcohol, by A. M.
Rubinshteyn, S. G. Kulikov, S. A. Zakharov, 9 pp.

Full tr

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Sci - Chemistry
Jan 57 CTS

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Physical and Chemical Properties of WS_2 Catalysts. Communication 1. Effect of Thermal Treatment on the Composition and Adsorption Properties of WS_2 Obtained by the Decomposition of Ammonium Thio tungstate, by S. M. Semolov, A. M. Rubinshtein, 7 DP

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Consultants Bureau

Sci - Chem

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RUBINSHTEIN, A. M.

Structure and Properties of TiO_2 Catalysts in
Relation to Their Polymorphism.

Iz Ak Nauk SSSR, Otdel Khim Nauk, No 2, 132 - 139,
1951, USSR.

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RUBINSHTEIN, A. M.

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Polymorphism and Catalytic Properties of Titanium Dioxide.

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also submitted 12/27/49

A6385

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Selectivity in Alcohol Catalysis as Determined by
Phase Transformation of Titanium Dioxide.

IZVESTIYA AKADEMII NAUK SSSR, Otd, Khim Nauk, 1950,
No 1, pp 84-97, 6500 words.

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Preparation of Corundum at Low Temperatures and
its Catalytic Activity, by A. M. Rubinshtein,
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RUSSIAN, per, Zhur Neorg Khim, Vol IV, No 7,
1959, pp 1498-1500.

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Chemisorption of Isopropyl Alcohol on Catalysts --
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El'takov, K. I. Slovet'skaya, 4 pp.

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Oct 59

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Polymorphism and Catalytic Properties of Titanium
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Scientific - Chemistry

25 October 1952

A6385

Application of the Dynamic Method of Measuring
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ATS-RJ-2168

Jun 58

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Distribution of Platinum in a Platinized Carbon
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Sci - Chem
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A Study of the Phase Composition and Adsorptive
Properties of Iron - Carbon Catalyst, by S. M.
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Sci - Chem
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Effect of the Pressure Applied in the Compression
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Activity and Structure, by O. D. Sterligov, M. G.
Gonikberg, A. M. Rubinshtein, B. A. Kazansky, 8 pp.

Full translation.

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No 1, Jan-Feb 1953, pp 28-36.

Consultants Bureau

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RUBINSHTEIN, E. S., ed.

Manual of Climatology by B. P. Alisov, B. I. Izvekov,
T. V. Pokrovskaja, and E. S. Rubinshtein; Leningrad/
Moscow, Hydrometoeorological Publications, 1940, 1022 p.

HQ, Air Weather Service, A-2, Technical Research
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Acc.47.1586.

A 10094

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Structure and Properties of TiO_2 Catalysts in
Relation to Their Polymorphism, by A. M. Rubinshteyn,
S. G. Kulikov.

RUSSIAN, bimo par, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 2, 1951, USSR, pp 132-139.

Assoc Tech Sv RJ-58

Sci - Chemistry

\$11.75 (\$1.60)

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Effect of the Structural Factor on the Catalytic
Decomposition of Alcohols Varying in Molecular
Weight, by A. M. Rubinshtein, N. A. Pribytkova,
4 pp.

Full translation.

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No 8, Jul/Aug 1955, pp 770-772. CIA C 41476
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Scientific - Chemistry
Mar 56 CTS/dex

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Effect of the Dimensions of the Elementary Crystallites
on the Porosity and Activity of Al_2O_3 Catalysts of
Dehydration Reactions, by A.M. Rubinshtein,
V.E. Vasserberg, N.A. Pribytkova, 8 pp.

RUSSIAN, bimo per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 2, Mar-Apr 1952, pp 323-333.

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Mar 54 CTS/DEX

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The Kinetics and the Mechanism of the Thermal
Decomposition of Lithium, Sodium, and Barium
Acetate, by V. I. Yakerson, ~~XXXXXXXXXXXXXXXXXXXX~~
A. M. Rubinshteyn, 6 pp.

RUSSIAN, per, Kinetika i Kataliz, Vol II, No 2,
1961, pp 172-178.

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Effect of Very High Pressures on the Catalytic Activity of Aluminum Oxide, by L. F. Vereshchagin, L. K. Freidlin, A. M. Rubinshtein and I. U. Numanov, 10 pp.

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Assoc Tech Serv
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Sci

Aug 58

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Magnetic Properties of Cl_2O_3 - Al_2O_3 Catalysts,
by A. M. Rubinshtein, A. A. Slinkin, 4 pp.

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No 6, 1960, pp 1386-1389.

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Properties and Structure of $\text{NiO-Al}_2\text{O}_3$ Catalysts.
Communication 1. Effect of Composition and Con-
ditions of Thermal Treatment on Activity and Se-
lectivity. A. M. Rubinshtein, A. A. Slinkin, N.
A. Pribytkova, 7 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No
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Consultants Bureau

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Physical and Chemical Properties of WS_2 Catalysts.
Communication 2. Adsorption Properties of Mixed
 WS_2 -Clay Catalysts, by S. M. Samoilov, A. M.
Rubinshtein, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 5, 1958, pp 550-556.

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Sci-Chem

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Rubinshtein, A. M., Pribytkova, N. A. and others.
CATALYSTS FOR SYNTHESIS OF GASOLINE FROM
CARBON MONOXIDE AND HYDROGEN REQUIRING
NO HIGH TEMPERATURE REDUCTION. [1961] 6p.
12 refs.

Order from OTS or SLA \$1.10

61-16889

Trans. of Akademiya Nauk SSSR. Otdelenie Khimi-
cheskikh Nauk. Izvestiya, 1941, no. 1, p. 41-48.

DESCRIPTORS: *Catalysts, Synthesis, *Gasoline,
Carbon compounds, Monoxides, Hydrogen, Reduction,
Temperature, Fuels, Nickel, Cobalt.

A series of nickel and cobalt catalysts for synthesis of
gasoline from hydrogen and carbon monoxide were in-
vestigated, prepared by different methods from dif-
ferent starting materials. Catalysts prepared by de-
composition of ferrocyanides in an atmosphere of hy-
(Chemistry--Organic, TT, v. 6, no. 9) (over)

61-16889

I. Rubinshtein, A. M.
II. Pribytkova, N. A.

Office of Technical Services

Complex Compounds of Platinum With Diallylamine,
by A. M. Rubinshtein, G. V. Derbisher, 5 pp.

RUSSIAN, bimo per, Iz Ak Nauk SSSR, Otdel Khim
Nauk, No 2, Mar/Apr 1953, pp 232-237.

Consultants Bureau

Scientific - Chemistry CTS/DEX

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Dependence of the Voltage Standing Wave Ratio and
Losses in a Balanced Aerial Switch on the Distance
Between the Magnetron and the Dischargers, by
B. E. Rubinshtein, 9 pp.

RUSSIAN, per, Radiotekh, Vol XV, No 7, 1960,
pp 16-20.

PP

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Sci

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The Phase Shift Created by the Input Protector
Tubes of a Receiver in Balanced Aerial Switches,
by B. E. Rubinshtein, 5 pp.

RUSSIAN, per, Radiotekh, Vol XV, No 10, 1960,
pp 14-16.

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On the problem of the averaging period in
climatology, by E. S. Rubinstein,
RUSSIAN, per, Tr. Glav. geofiz. observ. ,
Vol 181, 1965, pp 46-55
MLL 9022.551 (439 M)

E. S. Rubinstein

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Sci - Meteor, Cli
Apr 67

On The Integral Value Of Thermal Losses During Hot Liquid
Pumping Into A Stratum, by L. I. Rubinshtein.

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Gaz (USSR), 1959, p41-8

SLA TT-65-18060

L. I. Rubinshtein

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The Calculation of the Losses in a Quarter-Wave
Coupled Three-Element Microwave Filter, 16 pp.

by B.E. Rubinstein
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pp 25-35.

Pergamon Press

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Preparation of Dibasic Acids from Saturated
Monobasic Fatty Acids by Oxidation with Nitric
Acid, by B. L. Moldavskiy, M. V. Blinova,
R. I. Rudakova, M. Sh. Usmanova, E. I. Rubinshtein,
6 pp.

RUSSIAN, per, Zaur Prikl Khim, Vol XXXII, No 12,
1959, pp 2771-2776.

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Sci

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Nov 60

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Panoramic Delayless Analyzer for Multicomponent
Gas Mixtures (PGA-1), by E. N. Rubinshtein,
V. I. Fistul', 8 pp.

RUSSIAE, par, Priboiy i Tekh Ekaper, No 4,
1958, pp 82-88.

Instru Soc of Amer

Sci

Apr 60

114,030

Contribution to the Problem of the Earth's Cold
Poles and Where is the Earth's Cold Poles?, by
E. S. Rubinshteyn, L. I. Dzubrovin, 9 pp.

RUSSIAN, per, Met i Gid USSR, No 12, 1958, pp 28-30.
(and Priroda USSR, Mar 1959, p 115).

SLA 59-16425

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Vol 2, No 7

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On the Changes of Climate in the USSR During
Recent Decades, by E. S. Rubinshtein, 61 pp.

RUSSIAN, ¹⁹ I Sovremennye Problemy ¹⁹ Klimatologii
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Amer Meteorol Soc
AF Cambridge Res Center

Sci - Geophysics

May 60

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The Passivating Properties of Chromate Pigments,
by I. L. Rozenfel'd, F. I. Rubinshtein, V. V.
Zhebrovskiy, 7 pp.

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On the Determination of the Impact Compression
Strength of Timber, by E. K. Ashkenazy, B. P. Dutov,
G. M. Rubinshtein, 3 pp.

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ON THE OPTIMAL USE OF PRODUCTIVE ASSETS IN PERFORMING
SEVERAL KINDS OF OPERATIONS (GENERALIZED TRANS-
PORTATION PROBLEM), BY M. K. GAVURIN, G. SH.
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RUSSIAN, PER, SIBIRSKIY MATEMATICHESKIY ZHURNAL,
VOL III, NO 4, JUL/AUG 1962, PP 481-499.

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SCI - PHYS

OCT 62

212,889

61-23702

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the sum of argon and nitrogen can be determined. The
analytical part functions on the principle of fractional
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